



SPYWOLF

Security Audit Report

TESTNET



Completed on
January 4, 2022

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Arena of Fighters** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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ARENA OF FIGHTERS



PROJECT DESCRIPTION

According to their whitepaper:

Arena of fighters will be a multiplayer TPS game of CGU mode that consists of elements like MOBA, RPG, Roguelike and Social, A competitive Web3 Battle ground, Play for Fun and Earn for real, ARENA ensure that the earning is easier through different gaming channels.

Release Date: Presale starts in January, 2023

Category: Play to earn (P2E)



CONTRACT INFO

Token Name

ARENA OF FIGHTERS TOKEN

Symbol

ARENA

Contract Address

0x7683C8d7710deeEeB14eb0A97027cC4991E7dD53

Network

Binance Smart Chain

TESTNET

Language

Solidity

Deployment Date

Jan 4, 2023

Verified?

Yes

Total Supply

100,000,000,000

Status

Not launched

TAXES

Buy Tax

10%

Sell Tax

10%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of January 04, 2023)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
10,000,000,000

DEX
PancakeSwap

LP Address(es)



Liquidity not added yet



TOKEN TRANSFERS STATS

| | |
|-------------------------|---------|
| Transfer Count | TESTNET |
| Uniq Senders | TESTNET |
| Uniq Receivers | TESTNET |
| Total Amount | TESTNET |
| Median Transfer Amount | TESTNET |
| Average Transfer Amount | TESTNET |
| First transfer date | TESTNET |
| Last transfer date | TESTNET |
| Days token transferred | TESTNET |

SMART CONTRACT STATS

| | |
|-----------------------|---------|
| Calls Count | TESTNET |
| External calls | TESTNET |
| Internal calls | TESTNET |
| Transactions count | TESTNET |
| Uniq Callers | TESTNET |
| Days contract called | TESTNET |
| Last transaction time | TESTNET |
| Created | TESTNET |
| Create TX | TESTNET |
| Creator | TESTNET |



FEATURED WALLETS

| | |
|------------------|--|
| Owner address | 0x9ed8d866e723d69479a39b146dfed273964172f7 |
| Dev wallet | 0xE1fecADDE501e359bcfAAF83cB07c56e8E304558 |
| Marketing wallet | 0xf795C95a28Ce11B0927ce70A8C804232b7BB283e |
| LP address | Liquidity not added yet |

TOP 3 UNLOCKED WALLETS

1



TESTNET

Tokens are not distributed yet



VULNERABILITY CHECK

| | |
|--|--------|
| Design Logic | Passed |
| Compiler warnings. | Passed |
| Private user data leaks | Passed |
| Timestamp dependence | Passed |
| Integer overflow and underflow | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery | Passed |
| Oracle calls | Passed |
| Front running | Passed |
| DoS with Revert | Passed |
| DoS with block gas limit | Passed |
| Methods execution permissions | Passed |
| Economy model | Passed |
| Impact of the exchange rate on the logic | Passed |
| Malicious Event log | Passed |
| Scoping and declarations | Passed |
| Uninitialized storage pointers | Passed |
| Arithmetic accuracy | Passed |
| Cross-function race conditions | Passed |
| Safe Zeppelin module | Passed |
| Fallback function security | Passed |



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

Medium Risk

Owner can set buy/sell fees up to 25%.
Combined buy+sell=50%.

```
function setTaxFeePercent(uint256 taxFee, uint256 marketingFee,  
uint256 devFee, uint256 liquidityFee) external onlyOwner() {  
    _taxFee = taxFee;  
    _marketingFee = marketingFee;  
    _devFee = devFee;  
    _liquidityFee = liquidityFee;  
  
    totalFees = _taxFee + _marketingFee + _devFee + _liquidityFee;  
  
    require(totalFees <= 25, "Must keep fees at 25% or less");  
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



Informational

Owner can exclude address from fees.

```
function excludeFromFee(address account) public onlyOwner {  
    _isExcludedFromFee[account] = true;  
}
```

Owner can set max transaction limit but can't lower it than 0.2% of total supply.

```
function setMaxTxAmount(uint256 newNum) external onlyOwner() {  
    require(newNum >= (totalSupply() * 2 / 1000),  
        "Cannot set maxTransactionAmount lower than 0.2%");  
    _maxTxAmount = newNum;  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

ARENA OF FIGHTERS

GOOD PRACTICES FOUND

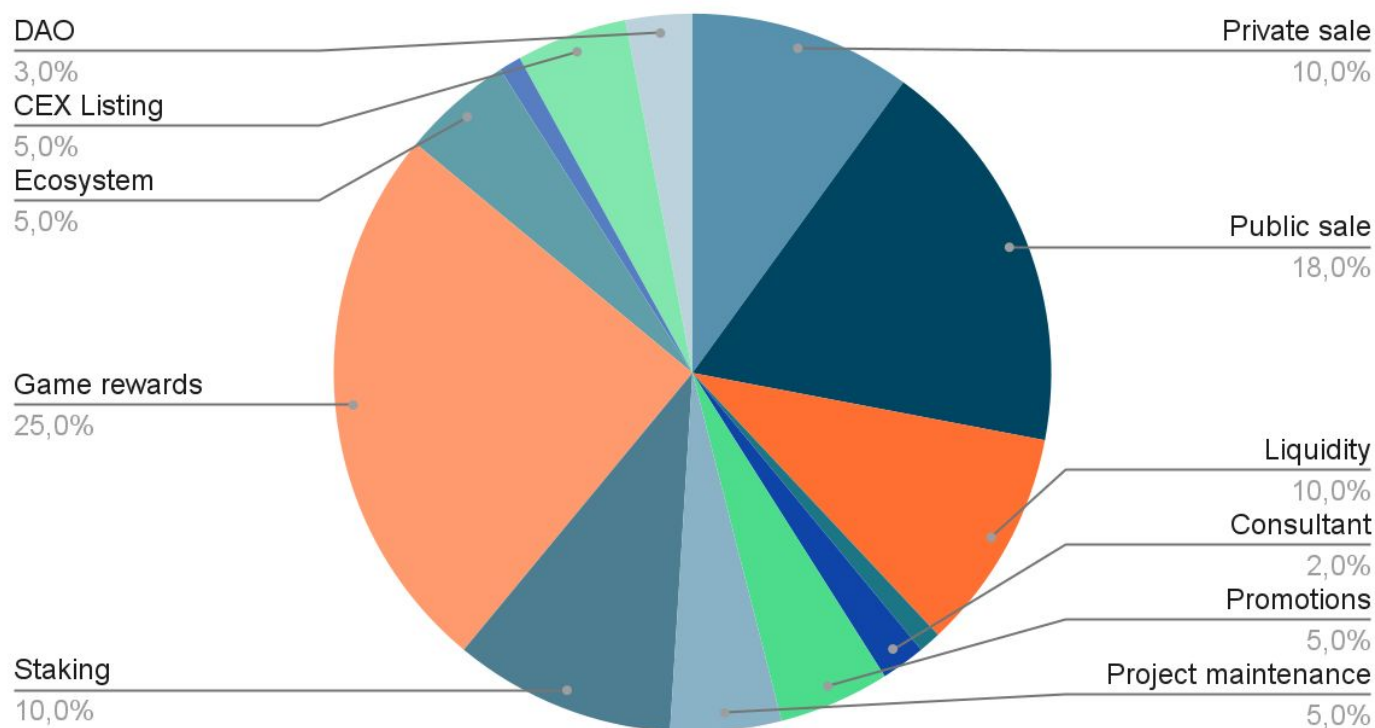
- ✓ The owner cannot mint new tokens after deployment
- ✓ Owner can set max transaction limit, but cannot lower it than 0.2% of total supply.
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- 10% - Private sale
- 18% - Public sale
- 10% - Liquidity
- 10% - Staking
- 5% - CEX listing
- 5% - Promotions
- 1% - Airdrop
- 25% - Game rewards
- 5% - Ecosystem
- 2% - Consultant
- 3% - DAO
- 1% - Test & Bounty plan
- 5% - Project maintenance

Tokens distribution



TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://arenaoffighters.com/>

Domain Registry

<https://www.gandi.net>

Domain Expiration

Expires on 2023-12-17

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with nice color scheme and overall layout.

Content

The information helps new investors understand what the product does right away.

No grammar mistakes found.

Whitepaper

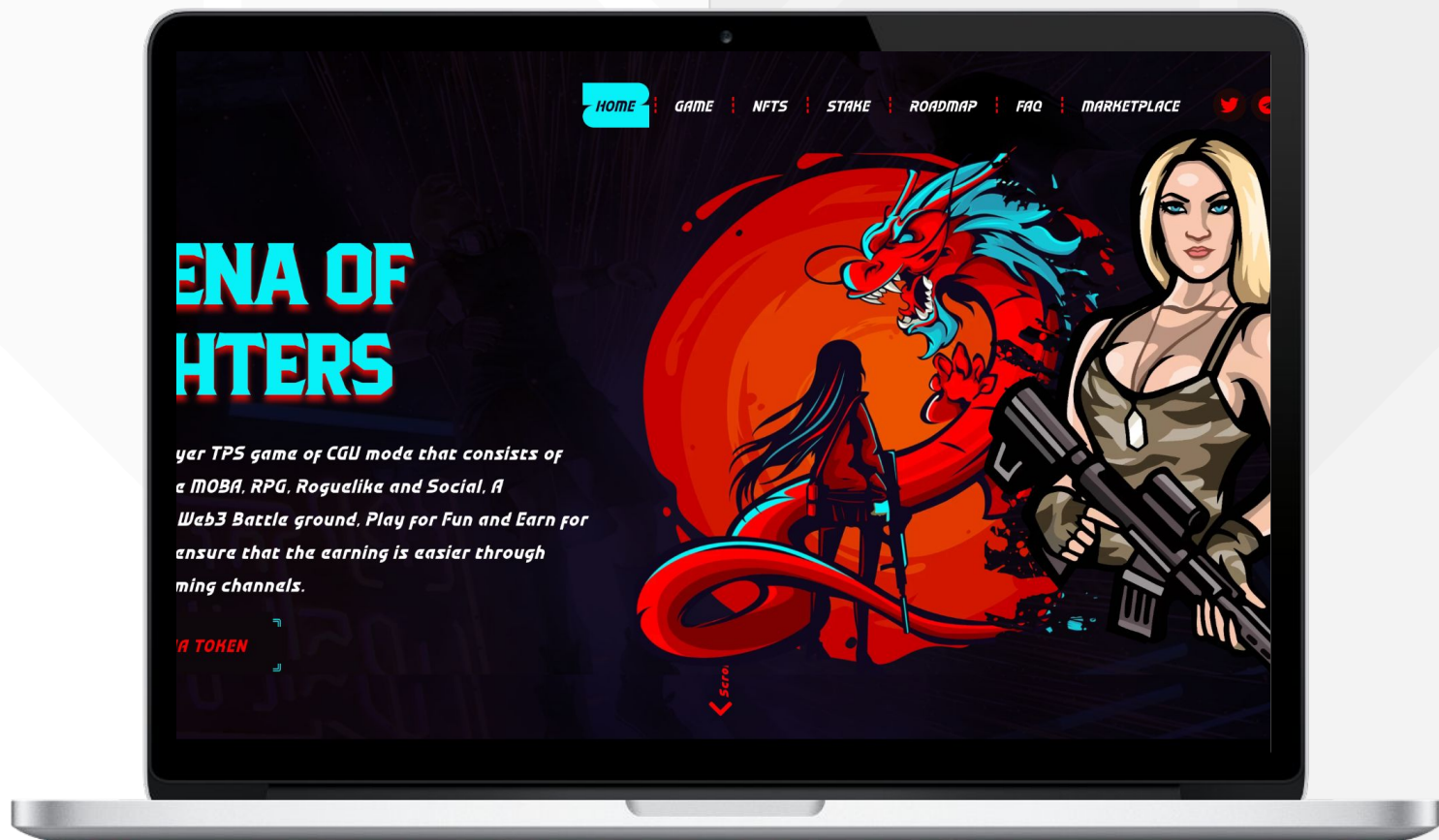
Well written explanatory.

Roadmap

Yes, goals set in 3 phases.

Mobile-friendly?

Yes



arenaoffighters.com

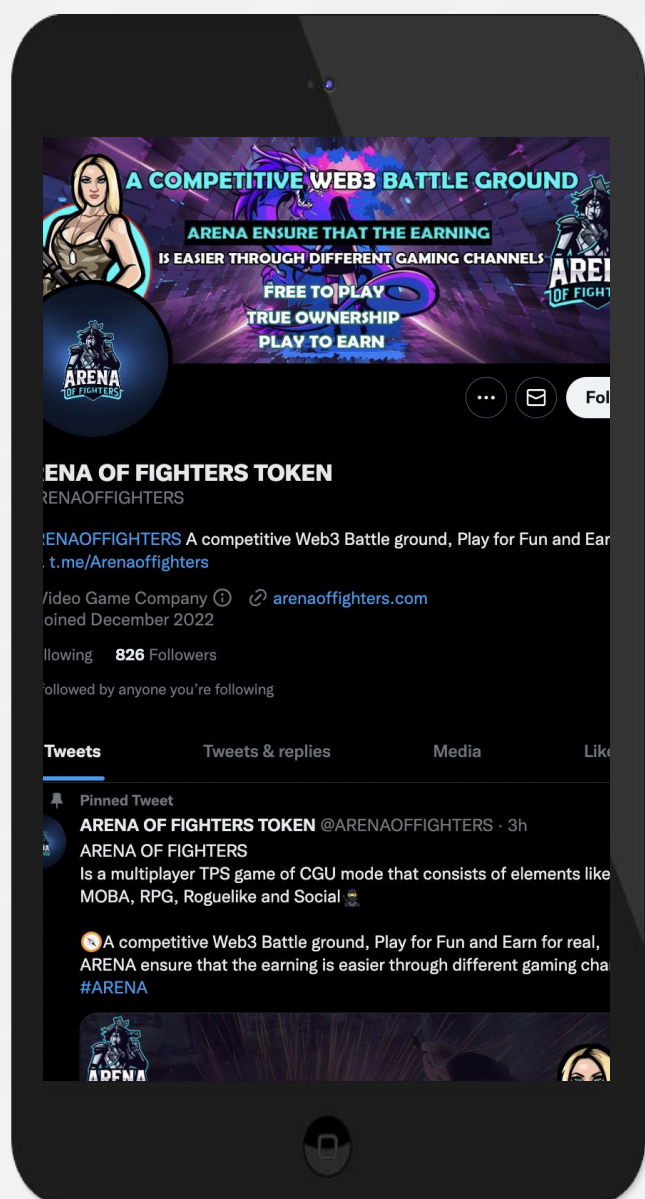


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media pages are active with few organic members



Twitter

@ARENAOFFIGHTERS

- 2 161 followers
- Active
- Daily posts



Discord

- Not available



Telegram

@Arenaooffighters

- 5 848 members
- Few active organic members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.